

Fig. 1

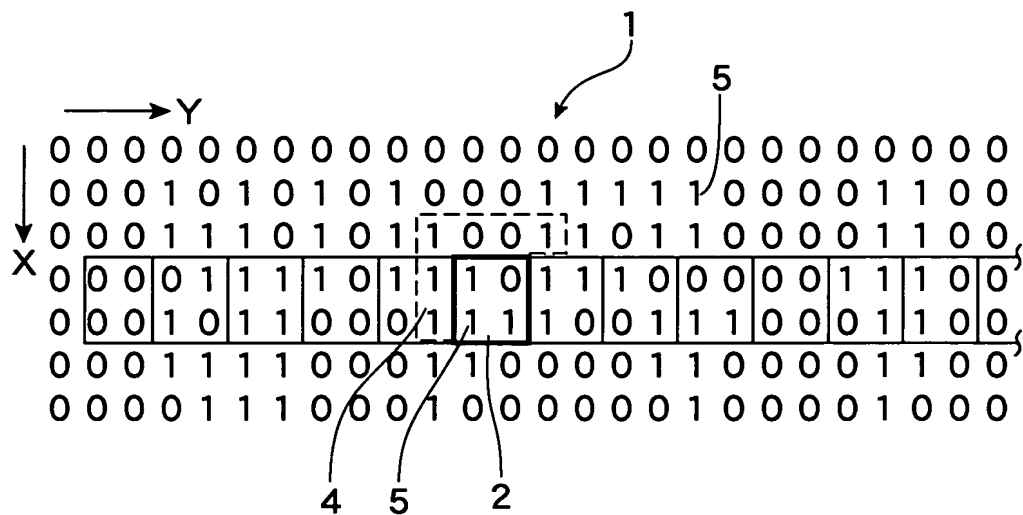


Fig. 2

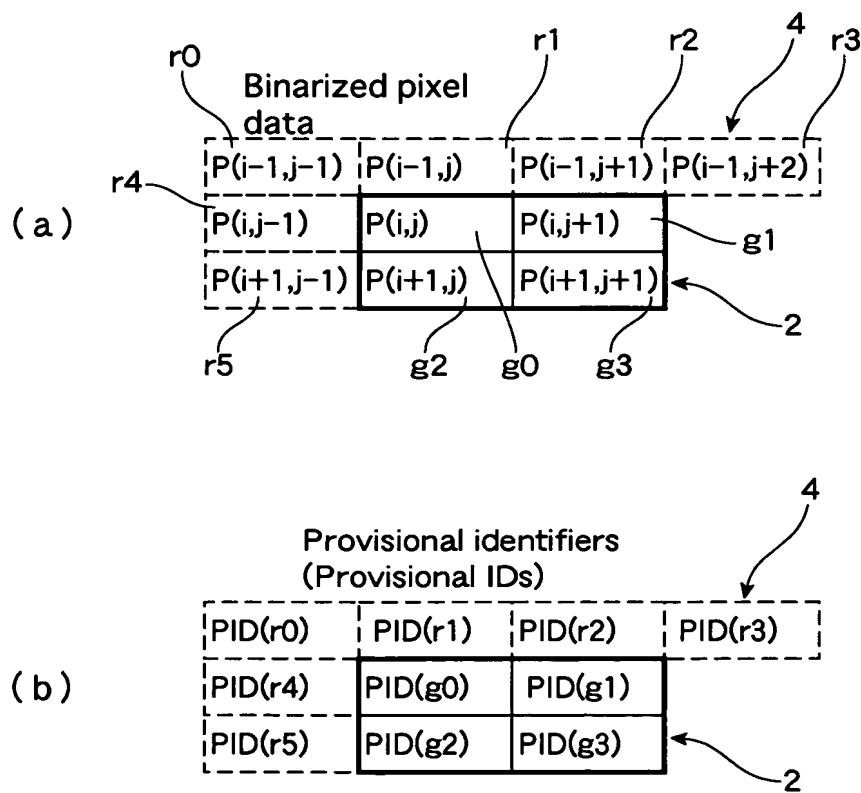


Fig. 3

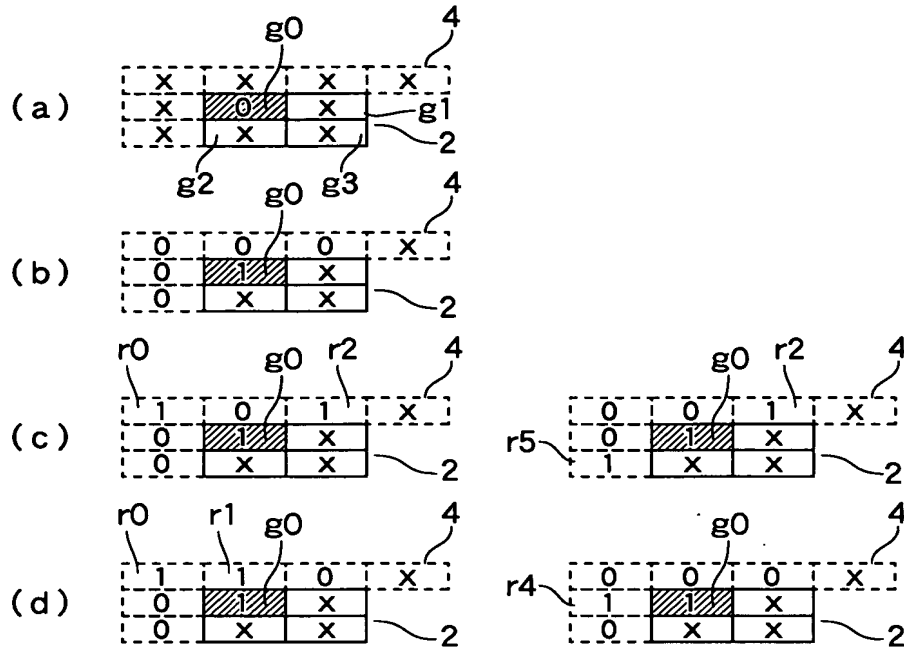


Fig. 4

| Pixel block |            |            |              | Adjacent pixel group |            |              |              |            |              |                |
|-------------|------------|------------|--------------|----------------------|------------|--------------|--------------|------------|--------------|----------------|
| $P(i,j)$    | $P(i,j+1)$ | $P(i+1,j)$ | $P(i+1,j+1)$ | $P(i-1,j-1)$         | $P(i-1,j)$ | $P(i-1,j+1)$ | $P(i-1,j+2)$ | $P(i,j-1)$ | $P(i+1,j-1)$ |                |
| 0           | 0          | 0          | 0            | 0                    | 0          | 0            | 0            | 0          | 0            | Nop            |
| 1           | 0          | X          | X            | 1                    | 1          | 1            | 0            | 1          | 1            | Combination #1 |
| 1           | 1          | X          | X            | 1                    | 1          | 1            | 1            | 1          | 1            | Combination #2 |
| 0           | 1          | 0          | X            | 0                    | 1          | 1            | 1            | 0          | 0            | Combination #3 |
| 0           | 1          | 1          | X            | 0                    | 1          | 1            | 1            | 1          | 1            | Combination #4 |
| 0           | 0          | 1          | X            | 0                    | 0          | 0            | 0            | 1          | 1            | Combination #5 |
| 0           | 0          | 0          | 1            | 0                    | 0          | 0            | 0            | 0          | 0            | New label      |

Fig. 5

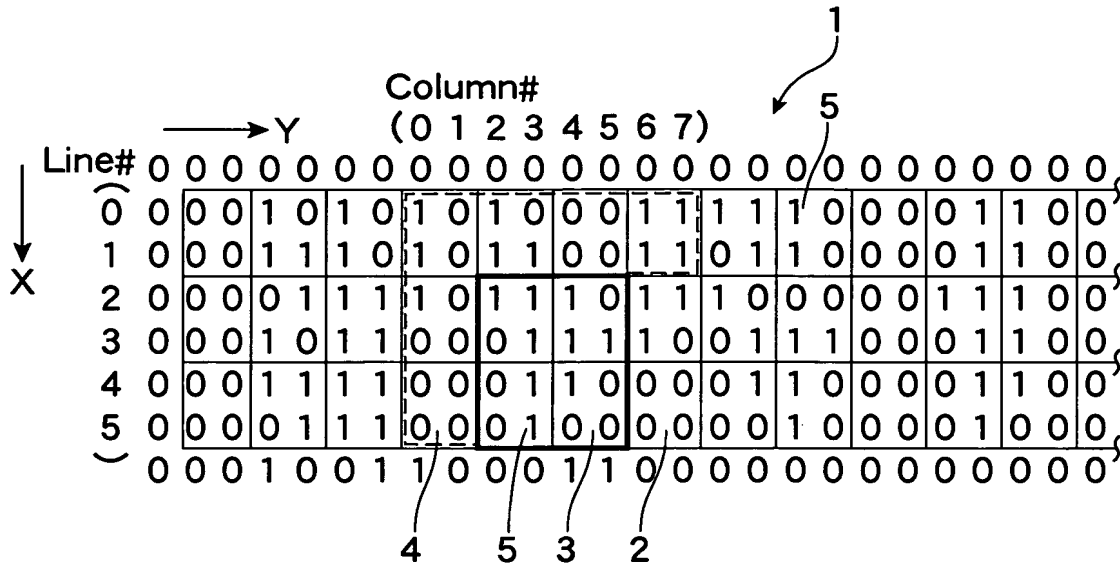


Fig. 6

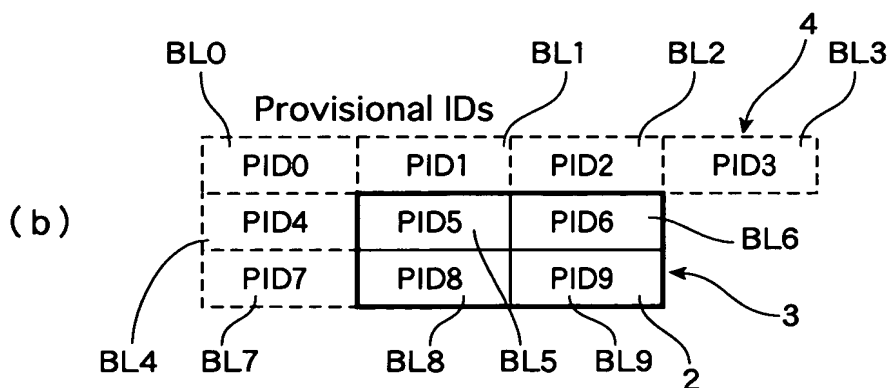
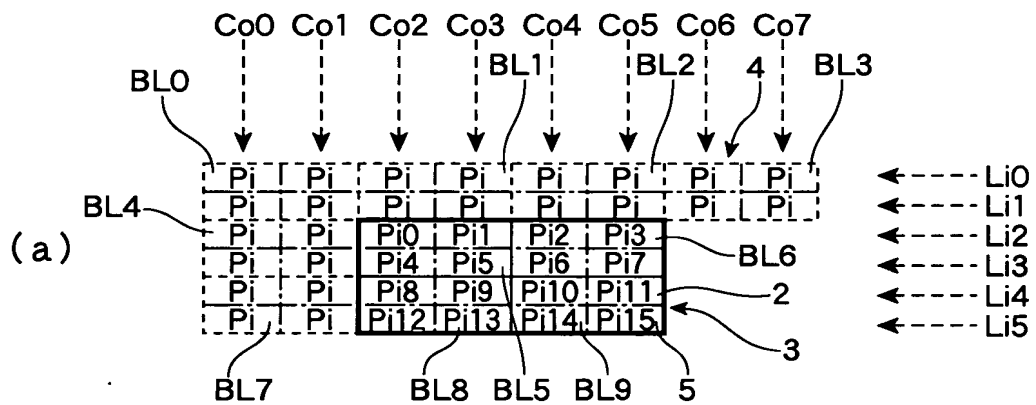


Fig. 7

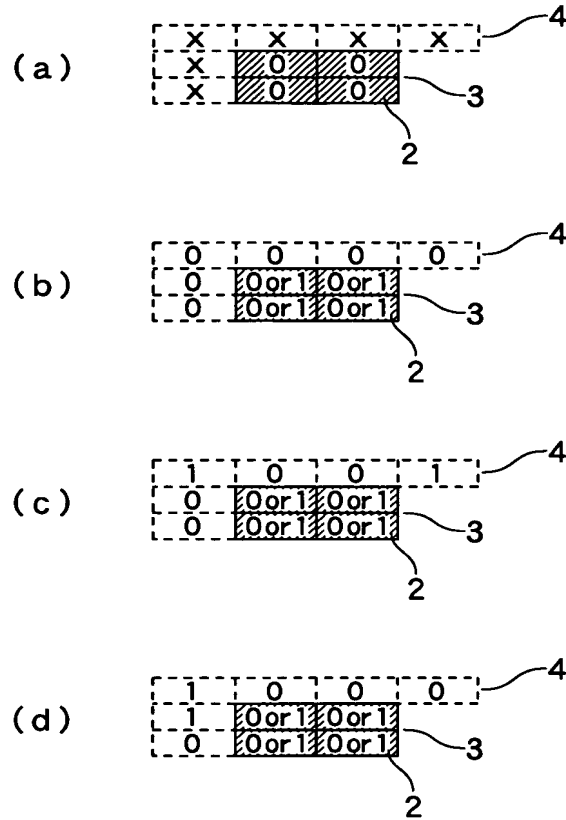


Fig. 8

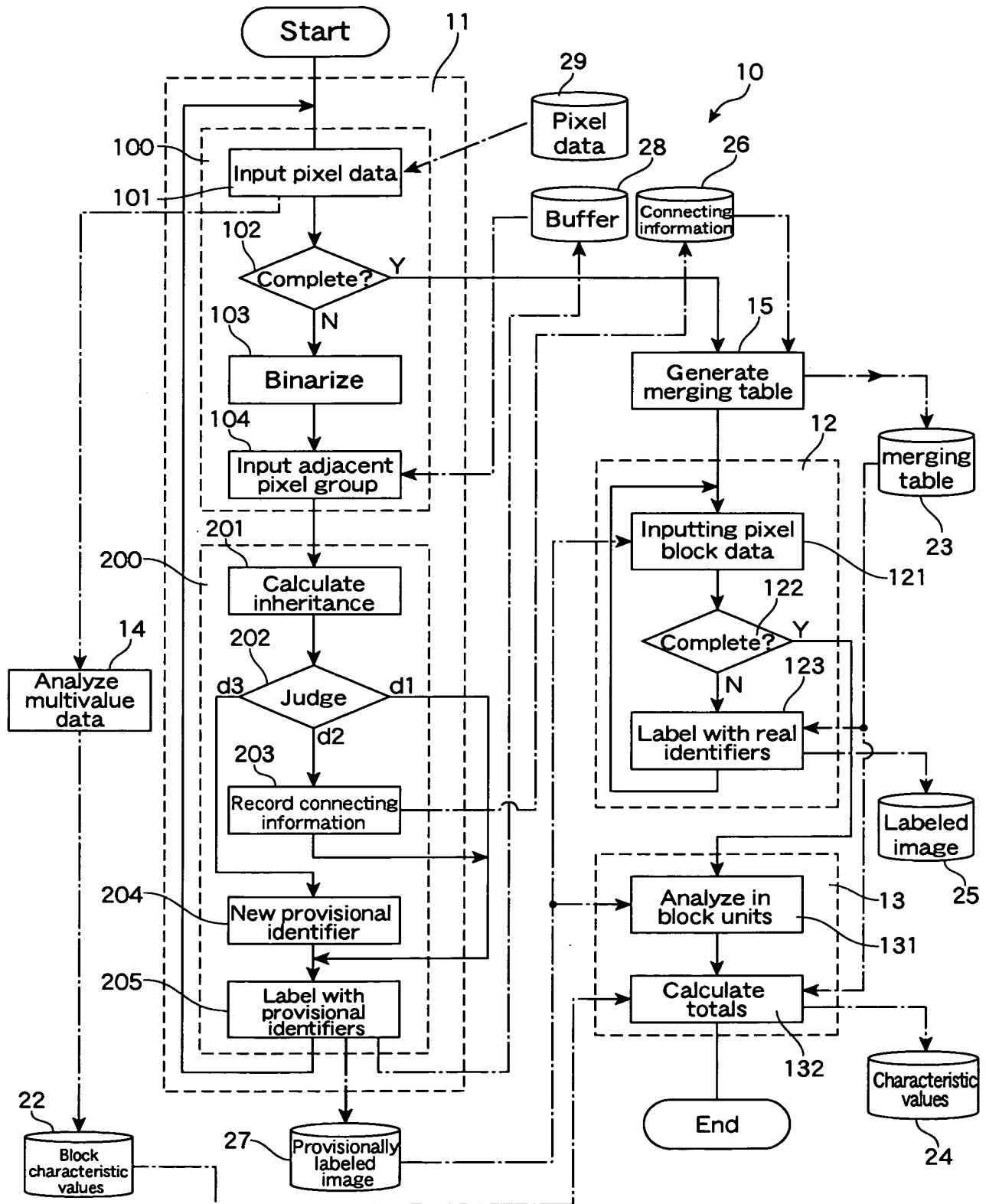


Fig. 9

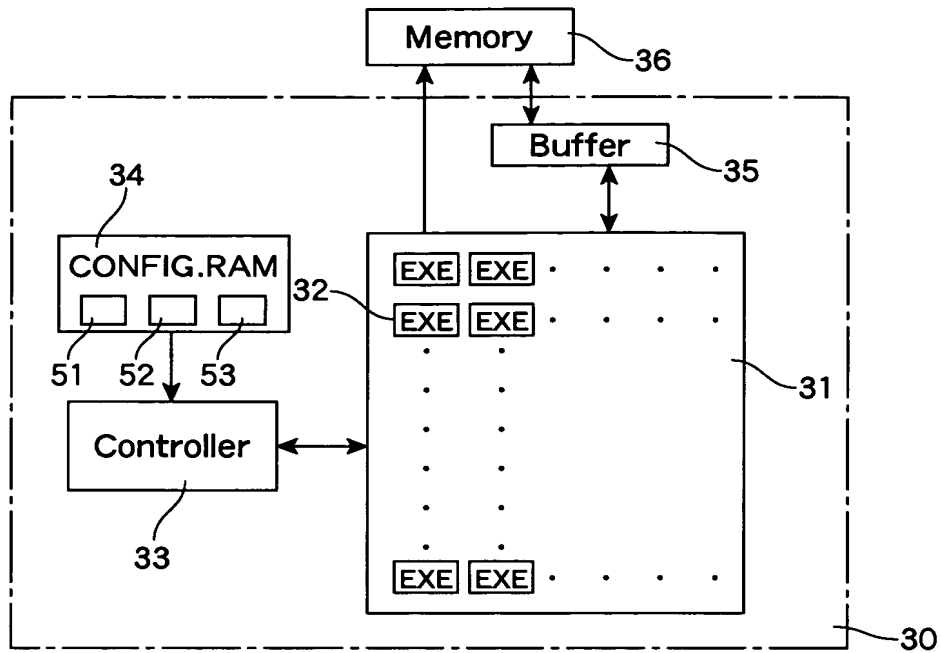


Fig. 10

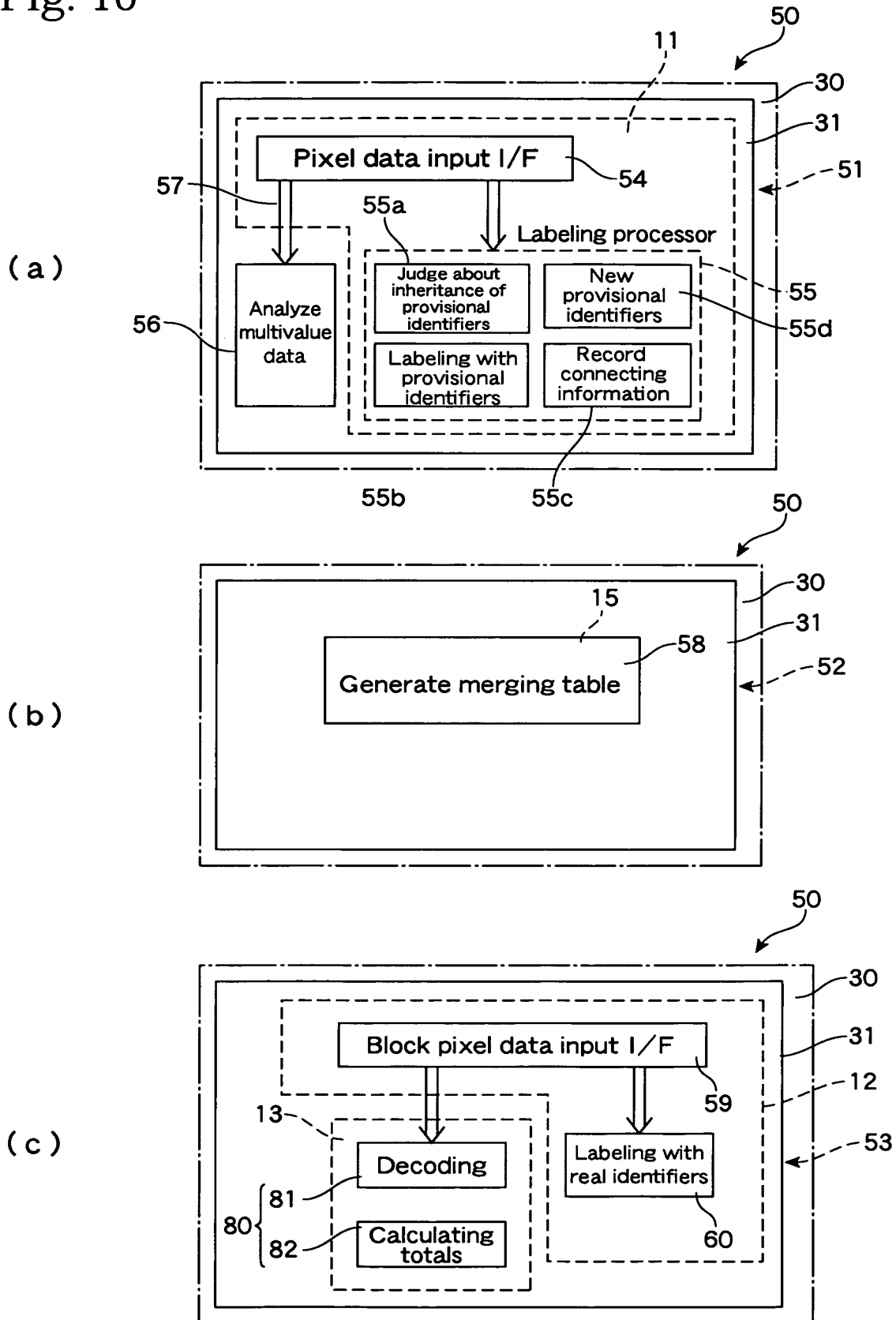


Fig. 11

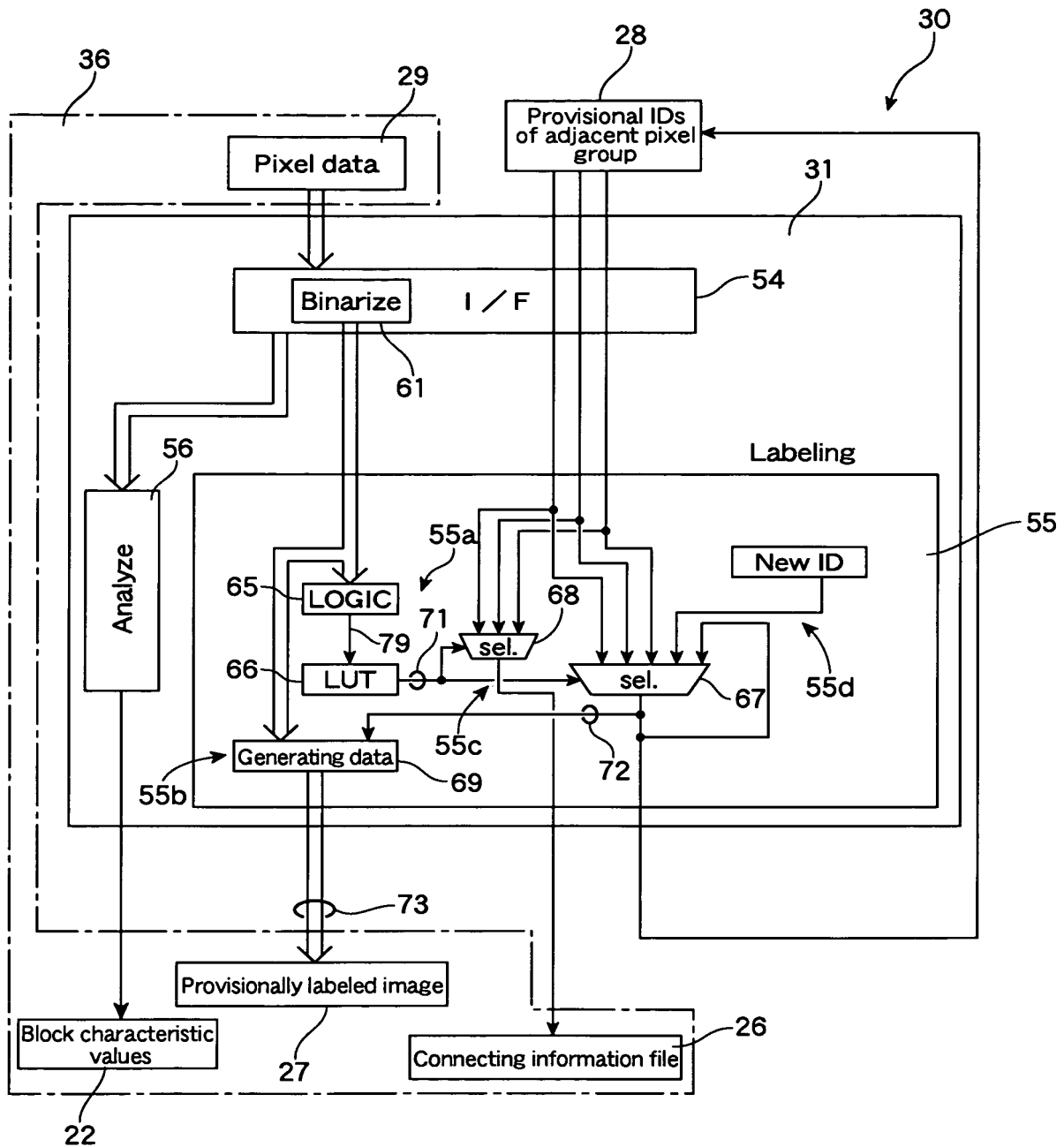


Fig. 12

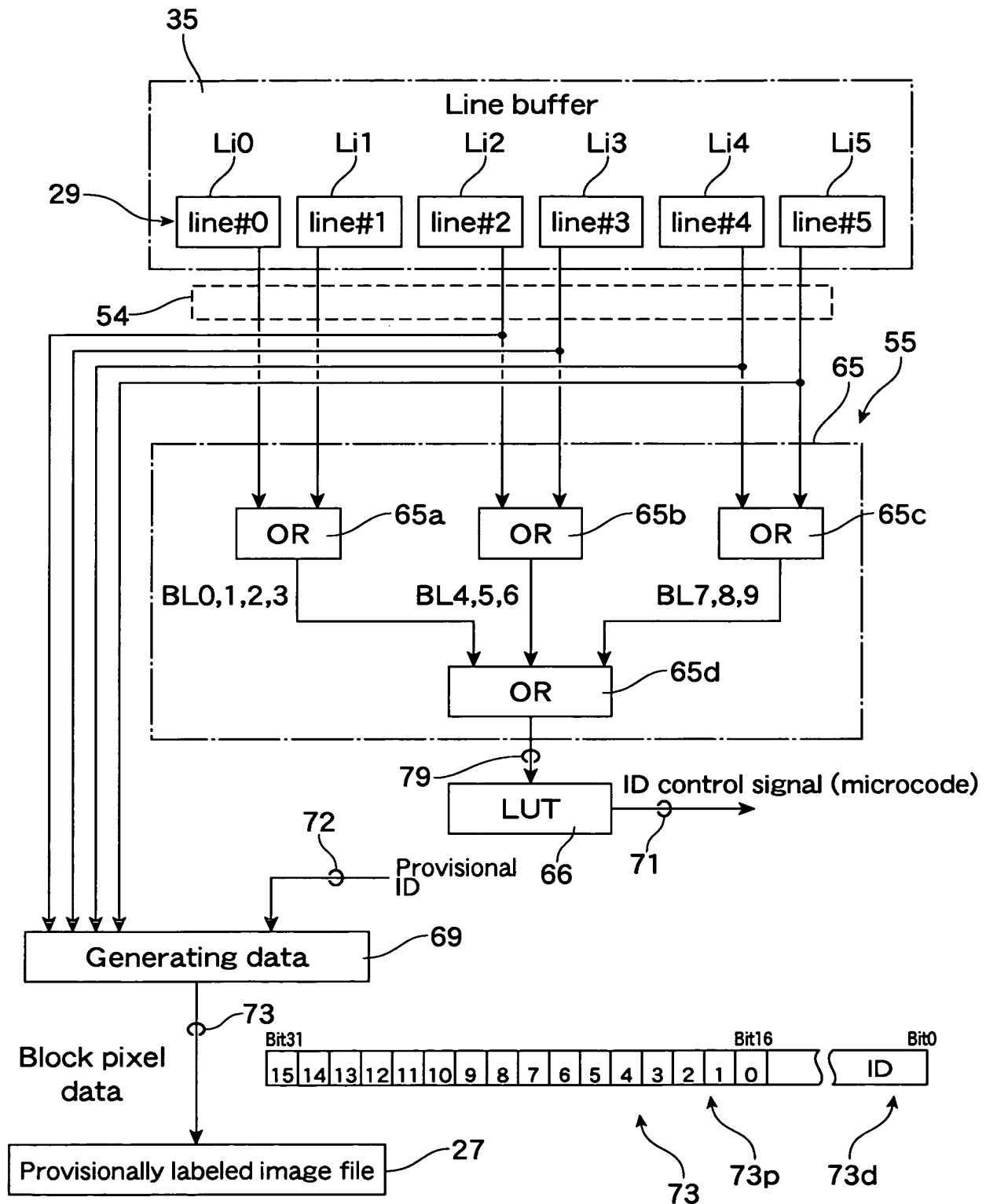


Fig. 13

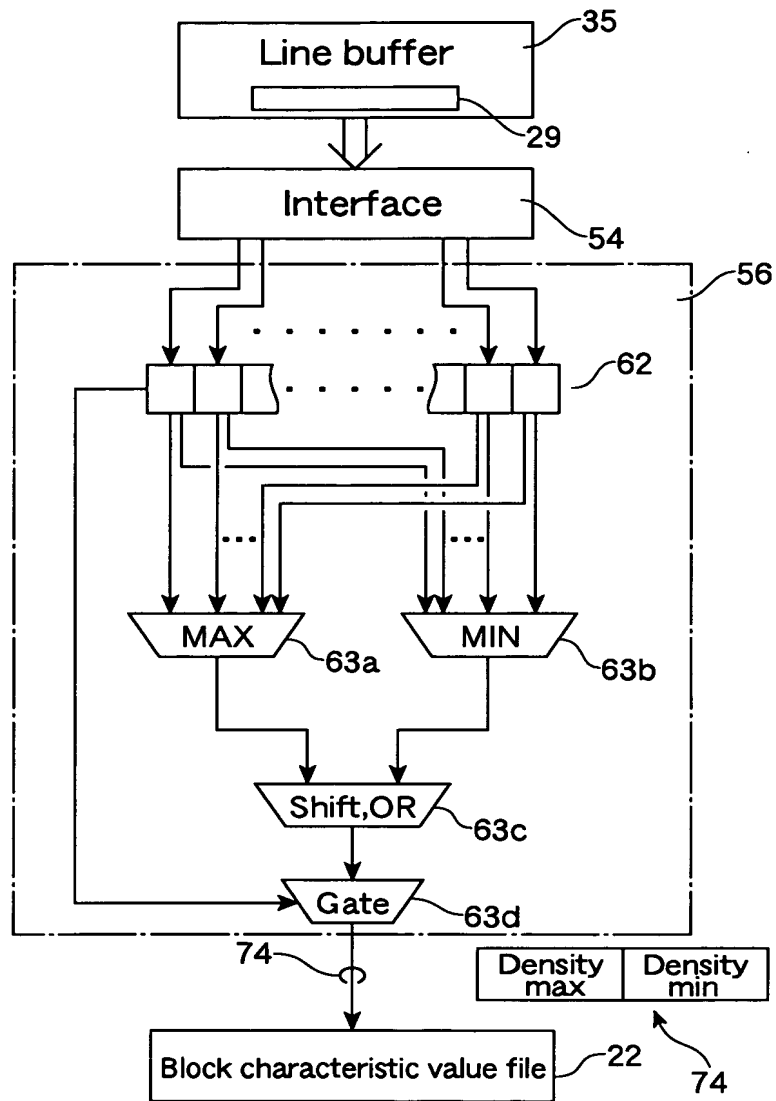


Fig. 14

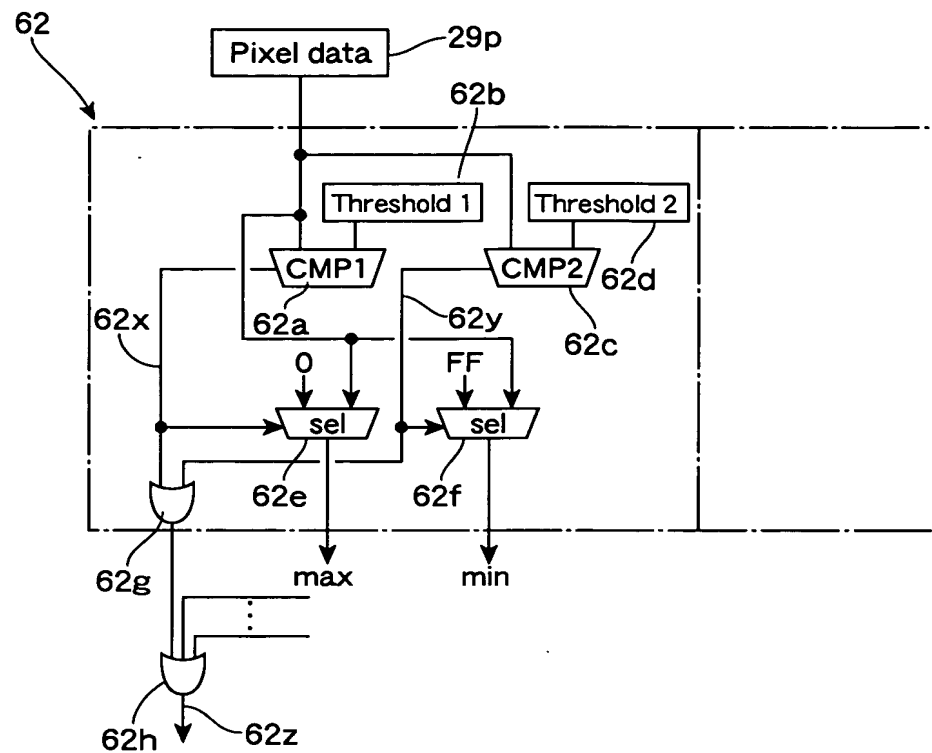


Fig. 15

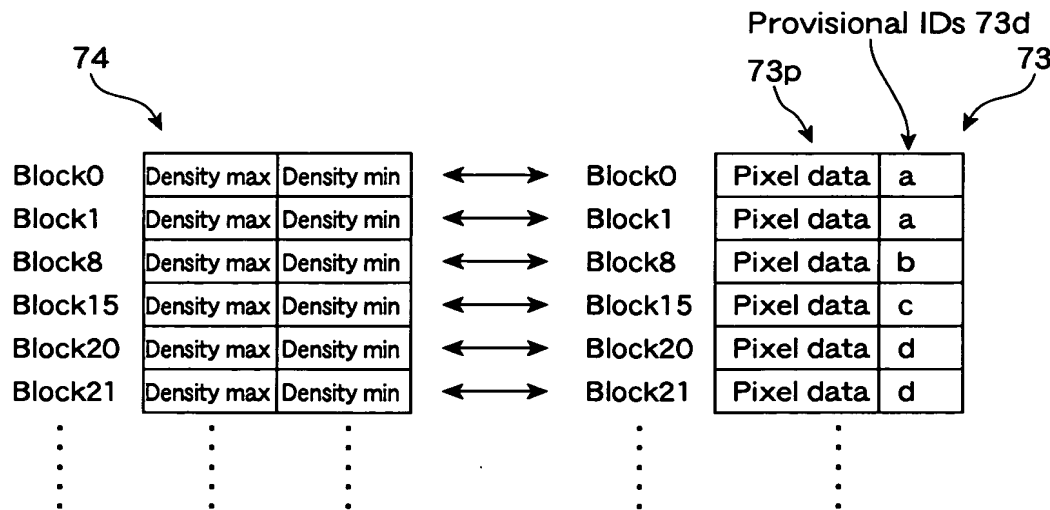


Fig. 16

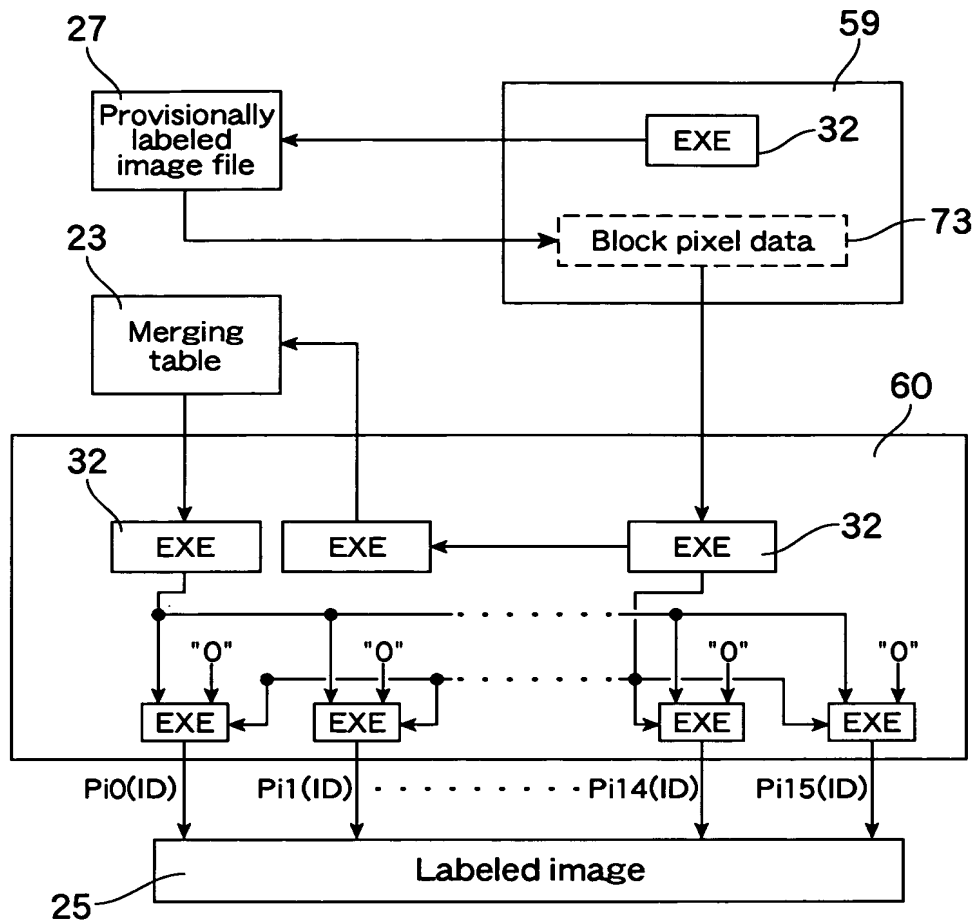


Fig. 17

